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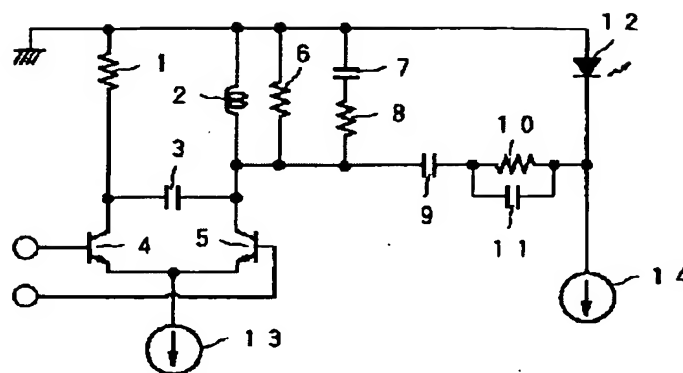
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TITLE : OPTICAL TRANSMISSION CIRCUIT



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide an optical transmission circuit which can drive a laser diode at a high speed under a low voltage and can transmit low-distortion low-chirp optical signals for a long distance by reducing waveform jitters of the outputted light and ringing.

SOLUTION: The optical transmission circuit is constituted in such a way that a coil 2 is connected to the collector of a transistor 5 as a load and a resistor 6, and a low-pass filter composed of the serial circuit of a resistor 8 and a capacitor 7 are connected in parallel with the coil 2. Then a laser diode 12 is connected to the low-pass filter through a resistor 10 as an AC coupling load, and a capacitor 11 is connected in parallel with the resistor 10 connected to the diode 12. In addition, a capacitor 3 is connected between the collectors of paired differential transistors 4 and 5.

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